



Draft Genome Sequence of the Type Strain *Pseudomonas jessenii* DSM 17150

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ABSTRACT We present the draft genome sequence of *Pseudomonas jessenii* type strain DSM 17150. The assembly consists of 13 contigs, contains 6,537,206 bp, and has a GC content of 59.7%.

Pseudomonas is the largest genus of Gram-negative bacteria and includes microorganisms that degrade a wide range of substrates, including amino acids, alcohols, and fatty acids and also xenobiotics like polyaromatic hydrocarbons. Members of *Pseudomonas* identified in soil, active sludge, plant surfaces, and freshwater or marine environments play important roles in the global carbon and nitrogen cycle.

Here, we present the draft genome sequence of *Pseudomonas jessenii* type strain DSM 17150 (equivalent to CIP 105274 = CCM 4840 = CFML 95-307), which was isolated from natural mineral water (1) and belongs to the *Pseudomonas jessenii* subgroup inside the *Pseudomonas fluorescens* lineage.

Genomic DNA was isolated using bead beating and a modified protocol from Zhou et al. (2). Briefly, a bacterial pellet from 5 ml of overnight culture was resuspended in 2 ml Zhou buffer; 0.5 g of 0.5-mm zirconia-silica beads was added, and the mixture was lysed by vortexing for 2×30 s at 3,200 rpm. The supernatant collected in a fresh tube was treated with 30 μ l of lysozyme (100 mg/ml), 10 μ l of achromopeptidase (100 kU/ml), and 8 μ l RNase A (10 mg/ml), and then incubated for 1 h at 37°C. Next, 8 μ l of proteinase K (40 mg/ml) was added to the supernatant and the sample was further incubated for 30 minutes at 37°C. Proteins in the sample were precipitated by the addition of 0.25 ml of 20% SDS to the mixture, incubated 1 hour at 55°C with mixing, chilled on ice for 2 minutes, and centrifuged (20 minutes at 8,000 rpm). The resulting DNA-containing supernatant was transferred to a fresh tube and extracted twice with chloroform, followed by isopropanol DNA precipitation. The DNA was resuspended in 100 μ l of water. Illumina paired-end (insert size of 300 bp) and Nextera mate-pair libraries (insert size of 8 kb) were prepared according to the manufacturers' protocols (a KAPA HTP DNA library preparation kit for Illumina and a Nextera mate-pair sample prep kit, respectively). Sequencing on an Illumina MiSeq platform (2×300 bp) resulted in 752,032 paired reads (paired end) and 1,532,388 paired reads (mate pair). Reads from a paired-end library were processed as follows: adapters were removed with cutadapt script (3) and filtered by length (>100) and quality (q30) (4), and only paired reads were used for assembly. The mate-pair reads were processed with NxTrim (5), and only real mate-pair reads were used for the assembly with SPAdes 3.9.0 (6). Contigs longer than 1 kb were deposited in GenBank and annotated using NCBI Prokaryotic Genome Annotation Pipeline (PGAP) (7). No plasmid sequence was detected in the draft genome.

The assembly consists of 13 contigs, containing 6,537,206 bp, with a GC content of 59.7%. The DSM 17150 genome encodes 6,019 predicted genes, of which 5,826 are protein coding, as well as 72 RNA genes, 59 tRNAs, 9 rRNAs, 4 noncoding RNAs (ncRNAs), and 121 pseudogenes.

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The genome contains genes involved in decomposition of crude oil components like toluene (*sdhCDAB*) and benzoate (like *pca* or *benABCD* genes) (8), but also a *copABCD* cluster responsible for copper homeostasis that is possibly involved in copper resistance mechanisms in bacteria. Despite the need to confirm the biochemical properties of the *Pseudomonas jessenii* type strain, the genome sequence presented here will be helpful in future research.

Accession number(s). This whole-genome shotgun project has been deposited at DDBJ/ENA/GenBank under the accession no. [NIWT00000000](https://www.ncbi.nlm.nih.gov/nuccore/NIWT00000000). The version described in this paper is the first version, NIWT01000000.

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